Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

Send any inquiries to http://www.renesas.com/inquiry.

Mask ROM number

740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38047M6-XXXSP/FP/HP RENESAS TECHNOLOGY

	Date :	
ipt	Section head signature	Supervisor signature
Rece		

Note : Please fill in all items marked *

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* Custome		Company name		TEL	TEL	ance ature	Submitted by	Supervisor
	Customor			())			
	Customer	Date issued	Date:			lssu signa		

×1. Confirmation

Three EPROMs are required for each pattern if this order is performed by EPROMs. One floppy disk is required for each pattern if this order is performed by a floppy disk.

Microcomputer name:

e: M38047M6-XXXSP

M38047M6-XXXFP

M38047M6-XXXHP

Ordering by EPROMs

If at least two of the three sets of EPROMs submitted contain identical data, we will produce masks based on this data. We shall assume the responsibility for errors only if the mask ROM data on the products we produce differs from this data. Thus, extreme care must be taken to verify the data in the submitted EPROMs.

Checksum code for entire EPROM



When submitting data by floppy disk, do not write data to the following product name area. (hexadecimal notation)

In the address space of the microcomputer, the internal ROM area is from address A08016 to FFFD16. The reset vector is stored in addresses FFFC16 and FFFD16.

- Set the data in the unused area (the shaded area of the diagram) to "FF16".
- (2) The ASCII codes of the product name "M38047M6-" must be entered in addresses 000016 to 000816. And set the data "FF16" in addresses 000916 to 000F16. The ASCII codes and addresses are listed to the right in

hexadecimal notation.

Address		Address	
000016	'M'=4D16	000816	'-' = 2D16
000116	'3'=3316	000916	FF16
000216	'8'=38 16	000A16	FF16
000316	'0'=3016	000B16	FF16
000416	'4'=3416	000C16	FF16
000516	'7'=3716	000D16	FF16
000616	'M'=4D16	000E16	FF16
000716	'6' = 3616	000F16	FF16

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We recommend the use of the following pseudo-command to set the start address of the assembler source program because ASCII codes of the product name are written to addresses 000016 to 000816 of EPROM.

EPROM type	27512
The pseudo-command	*=∆\$0000 .BYTE∆'M38047M6-'

Note : If the name of the product written to the EPROMs does not match the name of the mask confirmation form, the ROM will not be processed.

Ordering by floppy disk

We will produce masks based on the mask files generated by the mask file generating utility. We shall assume the responsibility for errors only if the mask ROM data on the products we produce differs from this mask file. Thus, extreme care must be taken to verify the mask file in the submitted floppy disk.

The submitted floppy disk must be 3.5-inch 2HD type and DOS/V format. And the number of the mask files must be 1 in one floppy disk.

Microcomputer name: M38	3047M6-XXXSP	M38047M6-X	XXFP M38047M6-XXXHP
File code			(hexadecimal notation)
Mask file name			.MSK (equal or less than eight characters)
Note:When subm 000016 to 00	itting data by floppy 0F16).	disk, do not write	data to the product name area (addresses

Write data to only ROM data area (addresses A08016 to FFFD16).

*2. Mark Specification

Mark specification must be submitted using the correct form for the package being ordered. Fill out the appropriate mark specification form (64P4B for M38047M6-XXXSP, 64P6N-A for M38047M6-XXXFP) and attach it to the mask ROM confirmation form. For M38047M6-XXXHP, standard mark is printed.

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*3. Usage conditions

Please answer the following questions about usage for use in our product inspection:

(1) How will you use the XIN-XOUT oscillator?				
Ceramic resonator	Quartz crystal			
External clock input	Other ()			
At what frequency?	f(XIN) = MHz			
(2) Which function will you use the pins P41/Xcl	IN and P40/XCOUT as P41 and P40, or XCIN and XCOUT?			
(3) What is the voltage of power supply (Vcc) ye Typ.= V Min.=	ou use? V Max.=V			
(4) What is the ambient temperature you use? Typ.=°C Min.=	°C Max.=°C			
 (5) Which main clock division ratio mode do you ☐ High-speed mode (f(φ)=f(XIN)/2) ☐ Slow-speed mode (f(φ)=f(XCIN)/2) 	u use? (Except program start timing) ☐ Middle-speed mode (f(<i>φ</i>)=f(XIN)/8)			
(6) Which function do you use?				
 Timer1 Timer2 A/D converter Watchdog Timer Serial I/O1 (Clock synchronous S LED direct drive port 	TimerX TimerY TimerZ PWM Serial I/O2 Serial I/O mode Asynchronous Serial I/O(UART) mode)			

Thank you cooperation.

×3. Comments